Index to Volume 33

Author Index

ARITA, LORNA H.
Behavioral isolation and the origin of species [abstr.], 117–118

BABA, KEIJI
A new stenopodidean shrimp (Decapoda, Natantia) from the Chatham Rise, New Zealand, 311–314

BAER, LAWRENCE J.
Agonistic communication and dominance in Hawaiian yellow tangs, *Zebrasoma flavescens* (Acanthuridae) [abstr.], 118

BAKER, JAMES K.
The rainbow skink, *Lampropholis delicata*, in Hawaii, 207–212

BANNER, ALBERT H., and DORA M. BANNER
Some small collections of alpheid shrimp from the Indian Ocean, including two new species of the genus *Synalpheus*, 25–35

BANNER, DORA M.
see Banner and Banner

BRALEY, RICHARD D.
Penaeid prawns in Fanga'uta Lagoon, Tongatapu, 315–321

CARLSON, BRUCE A., and MIKE V. DEGRUY
Observations on the vertical distribution of the chambered *Nautilus* in the Palau Islands [abstr.], 118

CARR, GERALD D.
Two new species in the Hawaiian endemic genus *Dubautia* (Compositae), 233–237

CHESS, JAMES R.
see Randall and Chess

CLUGSTON, DAVID A.
The ontogeny of play in captive Bengal tigers and its social ramifications [abstr.], 119

COOKE, WILLIAM J.
see Rastetter and Cooke

COOMBS, SHERYL
Auditory sensitivity in two species of Hawaiian squirrelfish [abstr.], 119

DEGRUY, MIKE V.
see Carlson and deGruy

DICKINSON, RICHARD E.
The occurrence and natural habitat of the mangrove crab, *Scylla serrata* (Forskal), on Ponape and Guam [abstr.], 127

FAN, POW-FOONG
Mineralogy of deep-sea sediments along the Murray Fracture Zone. 213–221

FERRARIS, RONALDO P.
The protein nutrition of *Sarotherodon mossambicus* in seawater [abstr.], 120

FLOYD, MARY E.
Phenolic chemotaxonomy of the genus *Pelea* A. Gray (Rutaceae), 153–160
Some aspects of reproduction of mokihana (*Pelea anisata* Mann) in the forests of Koke'e, 161–164

FORESTELL, PAUL H., and LOUIS M. HERMAN
Observations on humpback whale calves (*Megaptera novaeangliae*) in the Hawaiian winter assembly area [abstr.], 120

GARDNER, DONALD E.
see Smathers and Gardner

GLASBY, G. P., P. C. RANKIN, and M. A. MEYLAN
Manganiferous soil concretions from Hawaii, 103–115

GOSLINER, TERRENCE M.
The systematics of the Aeolidacea (Nudibranchia: Mollusca) of the Hawaiian Islands, with descriptions of two new species, 37–77

GUERNSEY, DUANE L., and WALTER K. MORISHIGE
Hypometabolism and hypothermia of the genetically obese mouse [abstr.], 121

GUNN, CHARLES R.
see Lassetter and Gunn

HAYASHI, JON
The contribution of an electrogenic sodium pump to burst rate regulation in the cardiac ganglion of *Portunus sanguinolentus* (Crustacea) [abstr.], 121–122

HERMAN, LOUIS M.
Humpback whales in Hawaiian waters: a study in historical ecology, 1–15
see also Forestell and Herman

HUMES, ARTHUR G.
Cyclopoid copepods (Lichomolgidae) associated with the scleractinian *Cyphastrea* in New Caledonia, 195–206

KAM, MELANIE W. Y.
The biosystematics of the *mimica-kambysellisi* subgroup of the "modified mouthparts" species group of Hawaiian *Drosophila* [abstr.], 122

LAI, CHING-SAN, and LAWRENCE H. PIETTE
Hydroxyl radical production involved in NADPH-dependent lipid peroxidation of rat liver microsomes [abstr.], 123

LASSETTER, J. STUART, and CHARLES R. GUNN
Vicia menziesii Sprengel (Fabaceae) rediscovered: its taxonomic relationships, 85–101

LAWS, EDWARD A., and DONALD G. REDALJE
Effects of sewage enrichment on the phytoplankton population of a subtropical estuary, 129–144

MEYLAN, M. A.
see Glasby, Rankin, and Meylan

MILLER, BRUCE A.
The biology of *Hastula inconstans* (Hinds, 1844) and a discussion of life history similarities among other hastulas of similar proboscis type, 289–306
MORISHIGE, WALTER K.
see Guernsey and Morishige
MORTON, BRIAN
Some aspects of the biology and functional morphology of *Trapezium* (*Neotrapezium*) *sublaevigatum* (Lamarck) (Bivalvia: Arcticacea), 177–194
MOTTA, PHILIP
The dentition of seven species of butterflyfish (Chaetodontidae) and their related feeding behavior [abstr.], 123

PERRON, FRANK E.
A biological determination of the taxonomic status of *Conus elisae* Kiener in Hawaii, 307–309
PIETTE, LAWRENCE H.
see Lai and Piette

RANDALL, JOHN E., and JAMES R. CHESS
A new species of garden eel (Congridae: Heterocongrinae) of the genus *Gorgasia* from Hawaii, 17–23
RANKIN, P. C.
see Glasby, Rankin, and Meylan
RASTETTER, EDWARD B., and WILLIAM J. COOKE
Some effects of sewage effluent on epifaunal communities in southern Kaneohe Bay, Oahu, Hawaii [abstr.], 124
REDALJE, DONALD G.
see Laws and Redalje
ROE, PAMELA
A comparison of aspects of the biology of *Paranemertes peregrina* (Nemertea) from Bodega Harbor, California, and Washington State, 281–287
ROELOFS, FAITH M.
The reproductive biology of *Cyrtandra grandiflora* (Gesneriaceae) on Oahu, 223–231
ROSS, ROBERT M.
Ecological limiting factors and the function of territoriality in the anemonefish *Amphiprion melanopus* [abstr.], 124
RUSSELL, DENNIS J.
The rise and fall of *Eucheuma* on Coconut Island [abstr.], 125

SABOSKI, ELEANOR M.
Diatom distribution and mercury levels in two Hawaiian intertidal marine beaches, 145–148
ST. JOHN, HAROLD
The botany of Kauai Island, Hawaii, as seen on Captain Cook's voyage, 1778, 325–326
The botany of Niihau Island, Hawaii, as seen on Captain Cook's voyage, 1778–1779, 327
Classification of *Acacia Koa* and relatives (Leguminosae). Hawaiian Plant Studies 93, 357–367
Cyrtandra (Gesneriaceae) from Kauai and Maui. Hawaiian Plant Studies 96, 385–393
Monograph of the Hawaiian species of *Achyranthes* (Amaranthaceae). Hawaiian Plant Studies 56, 333–350
The native Hawaiian species of *Morinda* (Rubiaceae). Hawaiian Plant Studies 94, 369–379
The native species of *Senecio* (Compositae) in Hawaii. Hawaiian Plant Studies 53, 329–332
New species of *Cyrtandra* (Gesneriaceae) from Kauai. Hawaiian Plant Studies 74, 351–355
Novelties in the genus *Pelea* (Rutaceae). Hawaiian Plant Studies 50, 165–171
Revision of the genus *Pandanus* Stickman. Part 42. *Pandanus tectorius* Parkins. ex Z and *Pandanus odoratissimus* L.f., 395–401
Revision of the genus *Pandanus* Stickman. Part 43. *Pandanus* in Tahiti, 403–434
A variety of *Colubrina oppositifolia* Brongn. ex Mann (Rhamnaceae). Hawaiian Plant Studies 95, 381–383
The vegetation of Hawaii as seen on Captain Cook's voyage in 1779, 79–83
SMATHERS, GARRETT A., and DONALD E. GARDNER
Stand analysis of an invading firetree (*Myrica faya* Aiton) population, Hawaii, 239–255
STONE, BENJAMIN C.
A new species and new section of the genus *Freycinetia* (Pandanaceae) from New Caledonia, 149–151

TAMARU, CLYDE S.
Genetic similarity and variation in the Hawaiian goatfishes (Mullidae) [abstr.], 125
TAYLOR, F. J.
Rhizophora in the Society Islands, 173–176
TOMICH, P. QUENTIN
Studies of leptospirosis in natural host populations I. Small mammals of Waipio Valley, island of Hawaii, 257–279
TRICAS, TIMOTHY C.
Relationships of the blue shark, *Prionace glauca*, and its prey species near Santa Catalina Island, California [abstr.], 126

WYBAN, JAMES A.
Molecular mechanisms of nutrient absorption in *Macrobrachium rosenbergii* [abstr.], 126–127

Subject Index*

*Biological organisms are indexed under their respective classes.

Acacia Koa Gray, var. *latifolia* (Benth.) comb. nov., 357–367
Acacia Koa Gray, var. *waianaeensis*, var. nov., 357–367
Achyranthes atollensis sp. nov., 333–350
Achyranthes lanaiensis sp. nov., 333–350
Achyranthes maneleensis sp. nov., 333–350
Achyranthes reflexa (Hbd.) comb. nov., 333–350

Achyranthes rotundata (Hbd.) comb. nov., 333–350
Aeolidacea, systematics of, of the Hawaiian Islands, with descriptions of two new species, 37–77
Albert L. Tester Memorial Symposium, abstracts of papers, 117–127
Alpheid shrimp, some small collections of, from the Indian Ocean, including two new species of the genus *Synalpheus*, 25–35
Amphiprion melanopus, ecological limiting factors and the function of territoriality in [abstr.], 124
Angiospermae
  botany of Kauai Island, Hawaii, as seen on Captain Cook's voyage, 1778, 325–326
  botany of Niihau Island, Hawaii, as seen on Captain Cook's voyage, 1778–1779, 327
  classification of *Acacia Koa* and relatives (Leguminosae). Hawaiian Plant Studies 93, 357–367
  Cyrtandra (Gesneriaceae) from Kauai and Maui. Hawaiian Plant Studies 96, 385–393
  monograph of the Hawaiian species of *Achyranthes* (Amaranthaceae). Hawaiian Plant Studies 56, 333–350
  native Hawaiian species of *Morinda* (Rubiaceae). Hawaiian Plant Studies 94, 369–379
  native species of *Senecio* (Compositae) in Hawaii. Hawaiian Plant Studies 53, 329–332
  new species and new section of the genus *Freycinetia* (Pandanaceae) from New Caledonia, 149–151
  new species of *Cyrtandra* (Gesneriaceae) from Kauai. Hawaiian Plant Studies 74, 351–355
  novelties in the genus *Pelea* (Rutaceae). Hawaiian Plant Studies 50, 165–171
  phenolic chemotaxonomy of the genus *Pelea* A. Gray (Rutaceae), 153–160
  reproductive biology of *Cyrtandra grandiflora* (Gesneriaceae) on Oahu, 223–231
  revision of the genus *Pandanus* Stickman. Part 42. *Pandanus tectorius* Parkins. ex Z and *Pandanus odoratissimus* L.f., 395–401
  revision of the genus *Pandanus* Stickman. Part 43. *Pandanus* in Tahiti, 403–434
  Rhizophora in the Society Islands, 173–176
  some aspects of reproduction of mokihana (*Pelea anisata* Mann) in the forests of Koke'e, 161–164
  stand analysis of an invading firetree (*Myrica faya* Aiton) population, Hawaii, 239–255
  two new species in the Hawaiian endemic genus *Dubautia* (Compositae), 233–237
  variety of *Colubrina oppositifolia* Brongn. ex Mann (Rhamnaceae). Hawaiian Plant Studies 95, 381–383
  vegetation of Hawaii as seen on Captain Cook's voyage, 79–83
  Vicia menziesii Sprengel (Fabaceae) rediscovered: its taxonomic relationships, 85–101
Anthozoa
  cyclopoid copepods (Lichomolgidae) associated with the scleractinian *Cyphastrea* in New Caledonia, 195–206
Auditory sensitivity in two species of Hawaiian squirrelfish [abstr.], 119
Behavioral isolation and the origin of species [abstr.], 117–118
Bivalvia
  some aspects of the biology and functional morphology of *Trapezium* (*Neotrapezium*) *sublaevigatum* (Lamarck) (Bivalvia: Arcticacea), 177–194
Bodega Harbor
  see California

California
  comparison of aspects of the biology of *Paranemertes peregrina* (Nemertea) from Bodega Harbor, and Washington State, 281–287
California
  relationships of the blue shark, *Prionace glauca*, and its prey species near Santa Catalina Island [abstr.], 126
Captain Cook's voyage
  botany of Kauai Island, Hawaii, as seen on, 1778, 325–326
  botany of Niihau Island, Hawaii, as seen on, 1778–1779, 327
  vegetation of Hawaii as seen on, 1779, 79–83
Cardiac ganglion of *Portunus sanguinolentus* (Crustacea), the contribution of an electrogenic sodium pump to burst rate regulation in the [abstr.], 121–122
Cephalopoda
  observations on the vertical distribution of the chambered *Nautilus* in the Palau Islands [abstr.], 118
Coconut Island
  see Hawaiian Islands
Colubrina oppositifolia Brongn. ex Mann, var. *Obatae*, var. nov., 381–383
Compositae
  two new species in the Hawaiian endemic genus *Dubautia*, 233–237
Conus elisae Kiener, biological determination of the taxonomic status of, in Hawaii, 307–309
Conus pennaceus
  biological determination of the taxonomic status of *Conus elisae* Kiener in Hawaii, 307–309
Crustacea
  contribution of an electrogenic sodium pump to burst rate regulation in the cardiac ganglion of *Portunus sanguinolentus* [abstr.], 121–122
  cyclopoid copepods (Lichomolgidae) associated with the scleractinian *Cyphastrea* in New Caledonia, 195–206
  molecular mechanisms of nutrient absorption in *Macrobrachium rosenbergii* [abstr.], 126–127
  new stenopodidean shrimp (Decapoda, Natantia) from the Chatham Rise, New Zealand, 311–314
  occurrence and natural habitat of the mangrove crab, *Scylla serrata* (Forskal), on Ponape and Guam [abstr.], 127
  penaeid prawns in Fanga'uta Lagoon, Tongatapu, 315–321
  some small collections of alpheid shrimp from the Indian Ocean, including two new species of the genus *Synalpheus*, 25–35
Cuthona diminutiva sp. nov., 37–77

Cyphastrea, cyclopoid copepods (Lichomolgidae) associated with, in New Caledonia, 195–206
Cyrtandra clypeata sp. nov., 351–355
Cyrtandra congesta sp. nov., 385–393
Cyrtandra elliptica sp. nov., 385–393
Cyrtandra grandiflora, reproductive biology of, on Oahu, 223–231
Cyrtandra haupuensis sp. nov., 351–355
Cyrtandra waihoiensis sp. nov., 385–393

Deep-sea sediments, mineralogy of, along the Murray Fracture Zone, 213–221
Diallagomolgus n. gen., 195–206
Diallagomolgus productus, n. sp., 195–206
Diallagomolgus vicinus, n. sp., 195–206
Diatom distribution and mercury levels in two Hawaiian intertidal marine beaches, 145–148
Dubautia herbstobatae sp. nov., 233–237
Dubautia waianapanapaensis sp. nov., 233–237

Enopla
  comparison of aspects of the biology of *Paranemertes peregrina* (Nemertea) from Bodega Harbor, California, and Washington State, 281–287
Eucheuma, rise and fall of, on Coconut Island [abstr.], 125

Filicineae
  vegetation of Hawaii as seen on Captain Cook's voyage in 1779, 79–83
Flabellina alisonae sp. nov., 37–77
Freycinetia hydra sp. nov., 149–151

Gastropoda
  biological determination of the taxonomic status of *Conus elisae* Kiener in Hawaii, 307–309
  biology of *Hastula inconstans* (Hinds, 1844) and a discussion of life history similarities among other hastulas of similar proboscis type, 289–306
  systematics of the Aeolidacea (Nudibranchia: Mollusca) of the Hawaiian Islands, with descriptions of two new species, 37–77
Gorgasia hawaiiensis, new species, 17–23
Guam
  occurrence and natural habitat of the mangrove crab, *Scylla serrata* (Forskal), on Ponape and on [abstr.], 127

Hastula inconstans, biology of, and a discussion of life history similarities among other hastulas of similar proboscis type, 289–306
Hawaiian Islands
  agonistic communication and dominance in Hawaiian yellow tangs, *Zebrasoma flavescens* (Acanthuridae) [abstr.], 118
  auditory sensitivity in two species of Hawaiian squirrelfish [abstr.], 119
  behavioral isolation and the origin of species [abstr.], 117–118
  biological determination of the taxonomic status of *Conus elisae* Kiener in Hawaii, 307–309
  biology of *Hastula inconstans* (Hinds, 1844) and a discussion of life history similarities among other hastulas of similar proboscis type, 289–306
biosystematics of the *mimica-kambysellisi* subgroup of the "modified mouthparts" species group of Hawaiian *Drosophila* [abstr.], 122
botany of Kauai Island as seen on Captain Cook's voyage, 1778, 325–326
botany of Niihau Island as seen on Captain Cook's voyage, 1778–1779, 327
classification of *Acacia Koa* and relatives (Leguminosae). Hawaiian Plant Studies 93, 357–367
Cyrtandra (Gesneriaceae) from Kauai and Maui. Hawaiian Plant Studies 96, 385–393
diatom distribution and mercury levels in two Hawaiian intertidal marine beaches, 145–148
effect of sewage enrichment on the phytoplankton population of a subtropical estuary, 129–144
genetic similarity and variation in the Hawaiian goatfishes (Mullidae) [abstr.], 125
humpback whales in Hawaiian waters: a study in historical ecology, 1–15
Manganiferous soil concretions from Hawaii, 103–115
monograph of the Hawaiian species of *Achyranthes* (Amaranthaceae). Hawaiian Plant Studies 56, 333–350
native Hawaiian species of *Morinda* (Rubiaceae). Hawaiian Plant Studies 94, 369–379
native species of *Senecio* (Compositae) in Hawaii. Hawaiian Plant Studies 53, 329–332
new species of *Cyrtandra* (Gesneriaceae) from Kauai. Hawaiian Plant Studies 74, 351–355
new species of garden eel (Congridae: Heterocongrinae) of the genus *Gorgasia* from Hawaii, 17–23
novelties in the genus *Pelea* (Rutaceae). Hawaiian Plant Studies 50, 165–171
observations on humpback whale calves (*Megaptera novaeangliae*) in the Hawaiian winter assembly area [abstr.], 120
phenolic chemotaxonomy of the genus *Pelea* A. Gray (Rutaceae), 153–160
rainbow skink, *Lampropholis delicata*, in Hawaii, 207–212
reproductive biology of *Cyrtandra grandiflora* (Gesneriaceae) on Oahu, 223–231
rise and fall of *Eucheuma* on Coconut Island [abstr.], 125
some aspects of reproduction of mokihana (*Pelea anisata* Mann) in the forests of Koke'e, 161–164
some effects of sewage effluent on epifaunal communities in southern Kaneohe Bay, Oahu, Hawaii [abstr.], 124
stand analysis of an invading firetree (*Myrica faya* Aiton) population, Hawaii, 239–255
studies of leptospirosis in natural host populations I. Small mammals of Waipio Valley, island of Hawaii, 257–279
systematics of the Aeolidacea (Nudibranchia: Mollusca) of the Hawaiian Islands, with descriptions of two new species, 37–77

two new species in the Hawaiian endemic genus *Dubautia* (Compositae), 233–237
variety of *Colubrina oppositifolia* Brongn. ex Mann (Rhamnaceae). Hawaiian Plant Studies 95, 381–383
vegetation of Hawaii as seen on Captain Cook's voyage in 1779, 79–83
Vicia menziesii Sprengel (Fabaceae) rediscovered: its taxonomic relationships, 85–101
Hong Kong
some aspects of the biology and functional morphology of *Trapezium* (*Neotrapezium*) *sublaevigatum* (Lamarck) (Bivalvia: Arcticacea), 177–194

Indian Ocean
some small collections of alpheid shrimp, including two new species of the genus *Synalpheus*, from, 25–35
Insecta
behavioral isolation and the origin of species [abstr.], 117–118
biosystematics of the *mimica-kambysellisi* subgroup of the "modified mouthparts" species group of Hawaiian *Drosophila* [abstr.], 122

Kaneohe Bay
see Hawaiian Islands
Kauai Island
see Hawaiian Islands
Key
to genera of Lichomolgidae with only one terminal element on two-segmented endopod of leg 4, 195–206
to species and varieties of *Acacia Koa* and relatives (Leguminosae), 357–367
to the Hawaiian species of *Achyranthes* (Amaranthaceae), 333–350
to the native Hawaiian species of *Morinda* (Rubiaceae), 369–379
to the species of *Pandanus* in Tahiti, 403–434
Koke'e
see Hawaiian Islands

Lampropholis delicata in Hawaii, 207–212
Leptospirosis, studies of, in natural host populations I. Small mammals of Waipio Valley, island of Hawaii, 257–279

Macrobrachium rosenbergii, molecular mechanisms of nutrient absorption in [abstr.], 126–127
Mammalia
humpback whales in Hawaiian waters: a study in historical ecology, 1–15
hydroxyl radical production involved in NADPH-dependent lipid peroxidation of rat liver microsomes [abstr.], 123
hypometabolism and hypothermia of the genetically obese mouse [abstr.], 121
observations on humpback whale calves (*Megaptera novaeangliae*) in the Hawaiian winter assembly area [abstr.], 120
ontogeny of play in captive Bengal tigers and its social ramifications [abstr.], 119
studies of leptospirosis in natural host populations I. Small mammals of Waipio Valley, island of Hawaii, 257–279
Manganiferous soil concretions from Hawaii, 103–115
Maui
see Hawaiian Islands
Megaptera novaeangliae
in Hawaiian waters: a study in historical ecology, 1–15
observations on calves of, in the Hawaiian winter assembly area [abstr.], 120
Morinda lanaiensis sp. nov., 369–379
Morinda sandwicensis Degener, var. *glabrata* (Degener) comb. nov., 369–379
Morinda sandwicensis Degener, var. *Hosakae* var. nov., 369–379
Morinda waikapuensis sp. nov., 369–379
Murray Fracture Zone, mineralogy of deep-sea sediments along the, 213–221
Myrica faya, stand analysis of an invading population of, Hawaii, 239–255
Myxoschizomycetes
studies of leptospirosis in natural host populations I. Small mammals of Waipio Valley, island of Hawaii, 257–279

Nautilus, observations on the vertical distribution of, in the Palau Islands [abstr.], 118
Nemertea
comparison of aspects of the biology of *Paranemertes peregrina* (Nemertea) from Bodega Harbor, California, and Washington State, 281–287
New Caledonia
cyclopoid copepods (Lichomolgidae) associated with the scleractinian *Cyphastrea* in, 195–206
new species and section of the genus *Freycinetia* (Pandanaceae) from, 149–151
New combination
Acacia Koa Gray, var. *latifolia* (Benth.) (Angiospermae), 357–367
Achyranthes reflexa (Hbd.) (Angiospermae), 333–350
Achyranthes rotundata (Hbd.) (Angiospermae), 333–350
Morinda sandwicensis Degener, var. *glabrata* (Degener) (Angiospermae), 369–379
New genus
Diallagomolgus (Crustacea), 195–206
New section
Sect. *Hydra* (Angiospermae), 149–151
New species
Achyranthes atollensis (Angiospermae), 333–350
Achyranthes lanaiensis (Angiospermae), 333–350
Achyranthes maneleensis (Angiospermae), 333–350
Cuthona diminutiva (Gastropoda), 37–77
Cyrtandra clypeata (Angiospermae), 351–355
Cyrtandra congesta (Angiospermae), 385–393
Cyrtandra elliptica (Angiospermae), 385–393
Cyrtandra haupuensis (Angiospermae), 351–355
Cyrtandra waihoiensis (Angiospermae), 385–393
Diallagomolgus productus (Crustacea), 195–206
Diallagomolgus vicinus (Crustacea), 195–206

Dubautia herbstobatae (Angiospermae), 233–237
Dubautia waianapanapaensis (Angiospermae), 233–237
Flabellina alisonae (Gastropoda), 37–77
Freycinetia hydra (Angiospermae), 149–151
Gorgasia hawaiiensis (Pisces), 17–23
Morinda lanaiensis (Angiospermae), 369–379
Morinda waikapuensis (Angiospermae), 369–379
Pandanus aoraiensis (Angiospermae), 403–434
Pandanus bothreus (Angiospermae), 403–434
Pandanus dicheres (Angiospermae), 403–434
Pandanus kamptos (Angiospermae), 403–434
Pandanus papenooensis (Angiospermae), 403–434
Pandanus Parksii (Angiospermae), 403–434
Pandanus subradiatus (Angiospermae), 403–434
Pelea cauliflora (Angiospermae), 165–171
Pelea paludosa (Angiospermae), 165–171
Pelea wailauensis (Angiospermae), 165–171
Spongicoloides novaezelandiae (Crustacea), 311–314
Synalpheus cretoculatus (Crustacea), 25–35
Synalpheus somalia (Crustacea), 25–35
New variety
Acacia Koa Gray, var. *waianaeensis* (Angiospermae), 357–367
Colubrina oppositifolia Brongn. ex Mann, var. *Obatae* (Angiospermae), 381–383
Morinda sandwicensis Degener, var. *Hosakae* (Angiospermae), 369–379
New Zealand
new stenopodidean shrimp (Decapoda, Natantia) from the Chatham Rise, 311–314
Niihau Island
see Hawaiian Islands
Nutrition, protein, of *Sarotherodon mossambicus* in seawater [abstr.], 120

Oahu
see Hawaiian Islands

Palau Islands
observations on the vertical distribution of the chambered *Nautilus* in [abstr.], 118
Pandanus aoraiensis sp. nov., 403–434
Pandanus bothreus sp. nov., 403–434
Pandanus dicheres sp. nov., 403–434
Pandanus kamptos sp. nov., 403–434
Pandanus papenooensis sp. nov., 403–434
Pandanus Parksii sp. nov., 403–434
Pandanus subradiatus sp. nov., 403–434
Paranemertes peregrina, comparison of aspects of the biology of, from Bodega Harbor, California, and Washington State, 281–287
Pelea anisata, some aspects of reproduction of, in the forests of Koke'e, 161–164
Pelea cauliflora sp. nov., 165–171
Pelea paludosa sp. nov., 165–171
Pelea, phenolic chemotaxonomy of, 153–160
Pelea wailauensis sp. nov., 165–171
Penaeid prawns in Fanga'uta Lagoon, Tongatapu, 315–321
Phytoplankton, effect of sewage enrichment on population of, of a subtropical estuary, 129–144
Pisces
agonistic communication and dominance in Hawaiian yellow tangs, *Zebrasoma flavescens* (Acanthuridae) [abstr.], 118
auditory sensitivity in two species of Hawaiian squirrelfish [abstr.], 119
dentition of seven species of butterflyfish (Chaetodontidae) and their related feeding behavior [abstr.], 123
ecological limiting factors and the function of territoriality in the anemonefish *Amphiprion melanopus* [abstr.], 124
genetic similarity and variation in the Hawaiian goatfishes (Mullidae) [abstr.], 125
new species of garden eel (Congridae: Heterocongrinae) of the genus *Gorgasia* from Hawaii, 17–23
protein nutrition of *Sarotherodon mossambicus* in seawater [abstr.], 120
Ponape
occurrence and natural habitat of the mangrove crab, *Scylla serrata* (Forskal), on, and Guam [abstr.], 127
Prionace glauca, the blue shark, and its prey species near Santa Catalina Island, California, relationships of [abstr.], 126

Reptilia
rainbow skink, *Lampropholis delicata*, in Hawaii, 207–212
Revision of the genus *Pandanus* Stickman
42. *Pandanus tectorius* Parkins. ex Z and *Pandanus odoratissimus* L. f., 395–401
43. *Pandanus* in Tahiti, 403–434
Rhizophora in the Society Islands, 173–176
Rhodophyceae
the rise and fall of *Eucheuma* on Coconut Island [abstr.], 125

St. John, Harold
career synopsis and bibliography, 435–447
Santa Catalina Island
see California
Sarotherodon mossambicus, protein nutrition of, in seawater [abstr.], 120
Scylla serrata (Forskal), the mangrove crab, on Ponape and Guam, occurrence and natural habitat of [abstr.], 127
Selachii
relationships of the blue shark, *Prionace glauca*, and its prey species near Santa Catalina Island, California [abstr.], 126
Senecio sandwicensis
native species of *Senecio* (Compositae) in Hawaii, 329–332
Sewage effluent, some effects of, on epifaunal communities in southern Kaneohe Bay, Oahu, Hawaii [abstr.], 124
Society Islands
Rhizophora in, 173–176
Spongicoloides novaezelandiae sp. nov., 311–314
Synalpheus cretoculatus sp. nov., 25–35

Synalpheus somalia sp. nov., 25–35

Tahiti
Pandanus in, revision of the genus *Pandanus* Stickman, 403–434
Tigers, Bengal, ontogeny of play in captive, and its social ramifications [abstr.], 119
Tonga
penaeid prawns in Fanga'uta Lagoon, Tongatapu, 315–321
Tongatapu
see Tonga
Trapezium (*Neotrapezium*) *sublaevigatum*, some aspects of the biology and functional morphology of, 177–194

Vicia menziesii Sprengel (Fabaceae) rediscovered: its taxonomic relationships, 85–101

Washington State
comparison of aspects of the biology of *Paranemertes peregrina* (Nemertea) from Bodega Harbor, California, and from, 281–287
Whales, humpback
in Hawaiian waters: a study in historical ecology, 1–15
observations on calves of, in the Hawaiian winter assembly area [abstr.], 120

Zebrasoma flavescens, agonistic communication and dominance in [abstr.], 118